

Date: Sat, 24 Sep 94 04:30:07 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #1056  
To: Info-Hams

Info-Hams Digest                      Sat, 24 Sep 94                      Volume 94 : Issue 1056

## Today's Topics:

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orbs$266.2of2.amsat
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Problems you can't solve otherwise to brian@ucsd.edu.

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We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 23 Sep 94 14:49:00 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: orbs\$266.2of2.amsat  
To: info-hams@ucsd.edu

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SB KEPS @ AMSAT $ORBS-266.W
Orbital Elements 266.WEATHER
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HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES  
FROM WA5QGD FORT WORTH,TX September 23, 1994  
BID: \$ORBS-266.W  
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9  
Catalog number: 15427  
Epoch time: 94264.78473792  
Element set: 961  
Inclination: 99.0391 deg  
RA of node: 316.3555 deg  
Eccentricity: 0.0014722  
Arg of perigee: 310.1811 deg  
Mean anomaly: 49.8067 deg

Mean motion: 14.13644294 rev/day  
Decay rate: 1.08e-06 rev/day<sup>2</sup>  
Epoch rev: 50390  
Checksum: 314

Satellite: NOAA-10  
Catalog number: 16969  
Epoch time: 94264.71043503  
Element set: 858  
Inclination: 98.5109 deg  
RA of node: 270.7745 deg  
Eccentricity: 0.0014197  
Arg of perigee: 49.6655 deg  
Mean anomaly: 310.5763 deg  
Mean motion: 14.24905697 rev/day  
Decay rate: 2.5e-07 rev/day<sup>2</sup>  
Epoch rev: 41624  
Checksum: 329

Satellite: MET-2/17  
Catalog number: 18820  
Epoch time: 94264.84702047  
Element set: 405  
Inclination: 82.5428 deg  
RA of node: 191.6933 deg  
Eccentricity: 0.0015357  
Arg of perigee: 273.2351 deg  
Mean anomaly: 86.7043 deg  
Mean motion: 13.84721360 rev/day  
Decay rate: 3.0e-07 rev/day<sup>2</sup>  
Epoch rev: 33573  
Checksum: 298

Satellite: MET-3/2  
Catalog number: 19336  
Epoch time: 94263.507900002  
Element set: 327  
Inclination: 82.5348 deg  
RA of node: 256.2229 deg  
Eccentricity: 0.0019482  
Arg of perigee: 27.1381 deg  
Mean anomaly: 333.0750 deg  
Mean motion: 13.16968720 rev/day  
Decay rate: 5.1e-07 rev/day<sup>2</sup>  
Epoch rev: 29580  
Checksum: 295

Satellite: NOAA-11

Catalog number: 19531  
Epoch time: 94264.86831799  
Element set: 779  
Inclination: 99.1796 deg  
RA of node: 256.1884 deg  
Eccentricity: 0.0011153  
Arg of perigee: 219.8719 deg  
Mean anomaly: 140.1625 deg  
Mean motion: 14.13017320 rev/day  
Decay rate: 6.5e-07 rev/day^2  
Epoch rev: 30879  
Checksum: 333

Satellite: MET-2/18  
Catalog number: 19851  
Epoch time: 94263.48156725  
Element set: 327  
Inclination: 82.5102 deg  
RA of node: 67.9382 deg  
Eccentricity: 0.0014714  
Arg of perigee: 326.7609 deg  
Mean anomaly: 33.2607 deg  
Mean motion: 13.84371975 rev/day  
Decay rate: 1.2e-07 rev/day^2  
Epoch rev: 28087  
Checksum: 320

Satellite: MET-3/3  
Catalog number: 20305  
Epoch time: 94265.26027486  
Element set: 151  
Inclination: 82.5530 deg  
RA of node: 202.8546 deg  
Eccentricity: 0.0007809  
Arg of perigee: 46.2814 deg  
Mean anomaly: 313.8946 deg  
Mean motion: 13.04410592 rev/day  
Decay rate: 4.4e-07 rev/day^2  
Epoch rev: 23555  
Checksum: 285

Satellite: MET-2/19  
Catalog number: 20670  
Epoch time: 94260.68464305  
Element set: 829  
Inclination: 82.5473 deg  
RA of node: 135.0161 deg  
Eccentricity: 0.0014451

Arg of perigee: 248.4464 deg  
Mean anomaly: 111.5145 deg  
Mean motion: 13.84181599 rev/day  
Decay rate: -3.3e-07 rev/day^2  
Epoch rev: 21341  
Checksum: 292

Satellite: FY-1/2  
Catalog number: 20788  
Epoch time: 94265.07669375  
Element set: 103  
Inclination: 98.8262 deg  
RA of node: 282.1036 deg  
Eccentricity: 0.0016870  
Arg of perigee: 102.6160 deg  
Mean anomaly: 257.6893 deg  
Mean motion: 14.01330748 rev/day  
Decay rate: -2.7e-07 rev/day^2  
Epoch rev: 20727  
Checksum: 306

Satellite: MET-2/20  
Catalog number: 20826  
Epoch time: 94262.53810013  
Element set: 838  
Inclination: 82.5206 deg  
RA of node: 70.9087 deg  
Eccentricity: 0.0013824  
Arg of perigee: 138.2251 deg  
Mean anomaly: 221.9964 deg  
Mean motion: 13.83589113 rev/day  
Decay rate: 3.5e-07 rev/day^2  
Epoch rev: 20080  
Checksum: 283

Satellite: MET-3/4  
Catalog number: 21232  
Epoch time: 94260.58744253  
Element set: 736  
Inclination: 82.5399 deg  
RA of node: 104.2812 deg  
Eccentricity: 0.0012941  
Arg of perigee: 320.4884 deg  
Mean anomaly: 39.5272 deg  
Mean motion: 13.16464714 rev/day  
Decay rate: 5.0e-07 rev/day^2  
Epoch rev: 16351  
Checksum: 289

Satellite: NOAA-12  
Catalog number: 21263  
Epoch time: 94264.63268759  
Element set: 188  
Inclination: 98.6110 deg  
RA of node: 290.2587 deg  
Eccentricity: 0.0012645  
Arg of perigee: 321.6371 deg  
Mean anomaly: 38.3904 deg  
Mean motion: 14.22448820 rev/day  
Decay rate: 8.5e-07 rev/day^2  
Epoch rev: 17421  
Checksum: 305

Satellite: MET-3/5  
Catalog number: 21655  
Epoch time: 94263.48785247  
Element set: 742  
Inclination: 82.5466 deg  
RA of node: 49.4259 deg  
Eccentricity: 0.0012649  
Arg of perigee: 325.0841 deg  
Mean anomaly: 34.9446 deg  
Mean motion: 13.16833670 rev/day  
Decay rate: 5.1e-07 rev/day^2  
Epoch rev: 14900  
Checksum: 317

Satellite: MET-2/21  
Catalog number: 22782  
Epoch time: 94260.60958337  
Element set: 337  
Inclination: 82.5444 deg  
RA of node: 133.2096 deg  
Eccentricity: 0.0023099  
Arg of perigee: 331.1116 deg  
Mean anomaly: 28.8772 deg  
Mean motion: 13.83014568 rev/day  
Decay rate: 1.7e-07 rev/day^2  
Epoch rev: 5286  
Checksum: 304

/EX

SB KEPS @ AMSAT \$ORBS-266.M  
Orbital Elements 266.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES

FROM WA5QGD FORT WORTH,TX September 23, 1994  
BID: \$ORBS-266.M  
TO ALL RADIO AMATEURS BT

Satellite: POSAT

Catalog number: 22829  
Epoch time: 94261.70111181  
Element set: 319  
Inclination: 98.6438 deg  
RA of node: 336.6264 deg  
Eccentricity: 0.0009543  
Arg of perigee: 287.0663 deg  
Mean anomaly: 72.9463 deg  
Mean motion: 14.28040464 rev/day  
Decay rate: -6.0e-08 rev/day^2  
Epoch rev: 5104  
Checksum: 291

Satellite: MIR

Catalog number: 16609  
Epoch time: 94263.91337372  
Element set: 768  
Inclination: 51.6465 deg  
RA of node: 67.4039 deg  
Eccentricity: 0.0002303  
Arg of perigee: 55.9412 deg  
Mean anomaly: 304.1818 deg  
Mean motion: 15.57092900 rev/day  
Decay rate: 2.349e-05 rev/day^2  
Epoch rev: 49093  
Checksum: 306

Satellite: HUBBLE

Catalog number: 20580  
Epoch time: 94263.56201773  
Element set: 537  
Inclination: 28.4704 deg  
RA of node: 343.3027 deg  
Eccentricity: 0.0006270  
Arg of perigee: 8.3135 deg  
Mean anomaly: 351.7553 deg  
Mean motion: 14.90675622 rev/day  
Decay rate: 4.03e-06 rev/day^2  
Epoch rev: 4363  
Checksum: 270

Satellite: GRO

Catalog number: 21225

Epoch time: 94263.40288782  
Element set: 142  
Inclination: 28.4631 deg  
RA of node: 290.9650 deg  
Eccentricity: 0.0003518  
Arg of perigee: 201.9854 deg  
Mean anomaly: 158.0562 deg  
Mean motion: 15.41277550 rev/day  
Decay rate: 1.913e-05 rev/day^2  
Epoch rev: 7164  
Checksum: 287

Satellite: UARS

Catalog number: 21701  
Epoch time: 94265.10692193  
Element set: 598  
Inclination: 56.9866 deg  
RA of node: 130.6744 deg  
Eccentricity: 0.0004615  
Arg of perigee: 113.8817 deg  
Mean anomaly: 246.2705 deg  
Mean motion: 14.96465254 rev/day  
Decay rate: 2.274e-05 rev/day^2  
Epoch rev: 16544  
Checksum: 315

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End of Info-Hams Digest V94 #1056

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